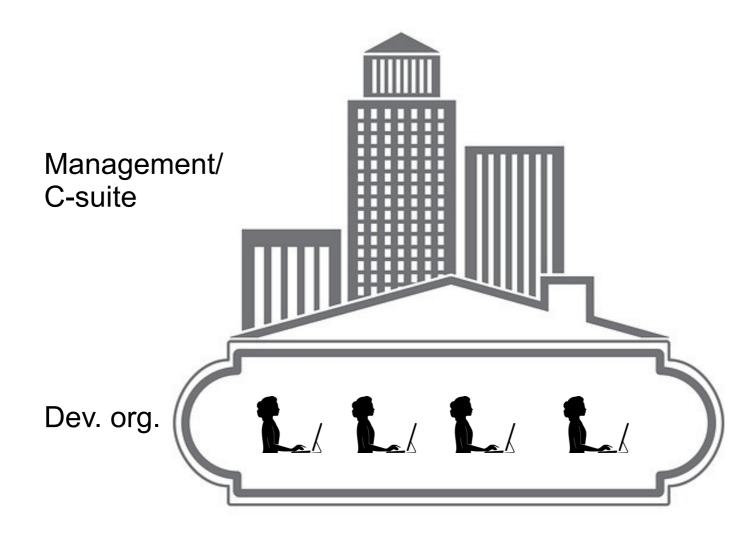


About Johan

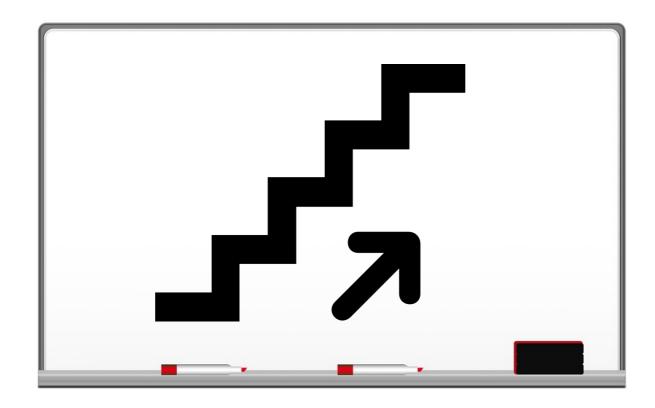
- Current focus Helping public sector organizations build ecosystems with platforms of open data & software
- PhD Thesis This presentation
- Openhack Platform for social innovation and digital volunteerism using open source.
- Hack for Sweden Swedish Government initiative to drive the creation of open and data-driven innovation.



Why Open Source?



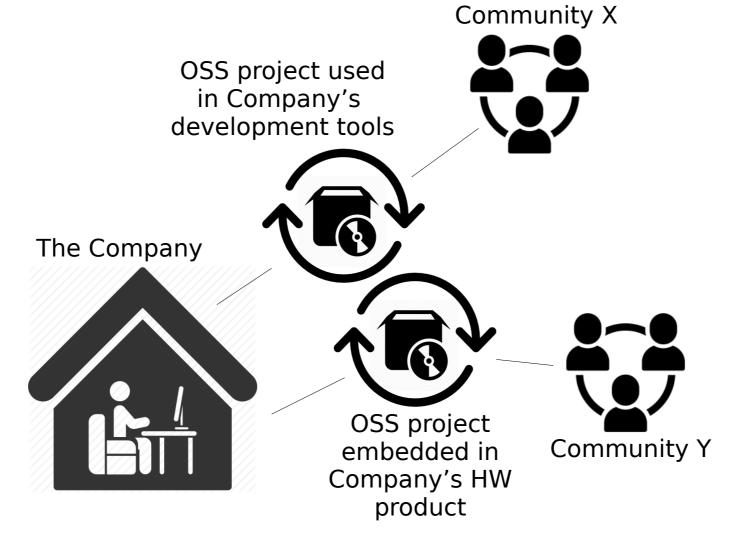
A Maturity Process



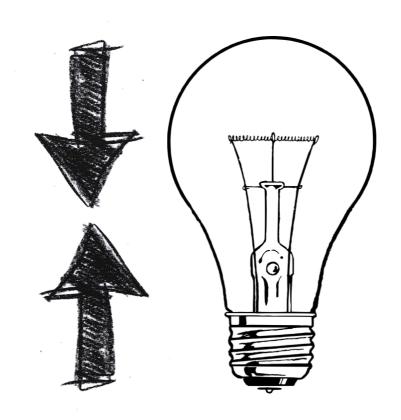
Company X



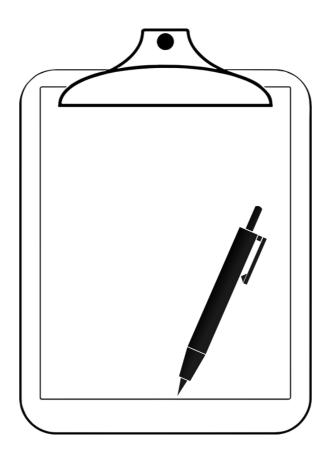
Open Source Used and Integrated



Top-down >< Bottom-up



Inventory



An Open Source Program is Born



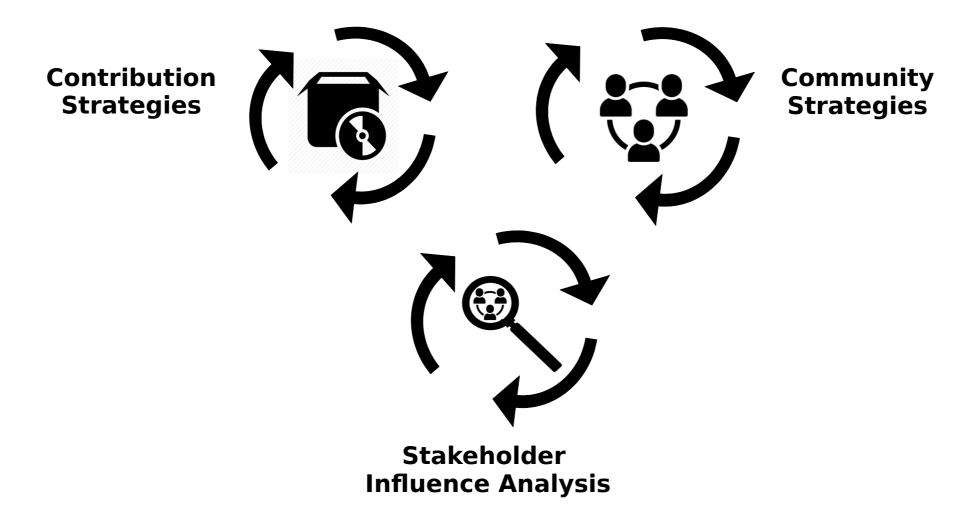
Process Development



→ Focus of my PhD



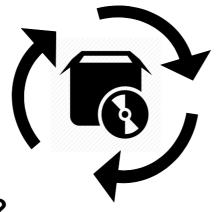
Interactive and Iterative 3-way Approach



Contribution Strategies

What?

- Everything or certain parts?



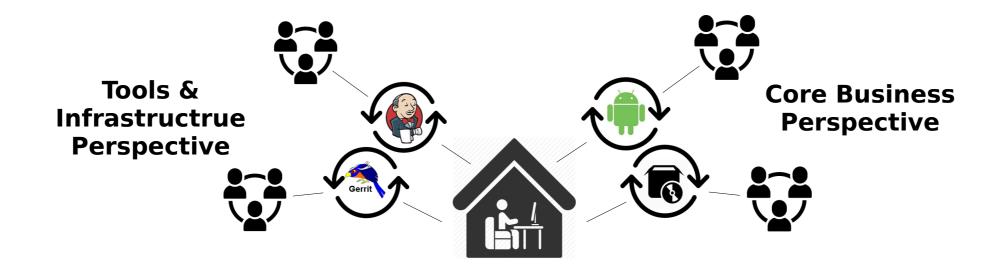
When?

Now or possibly later?

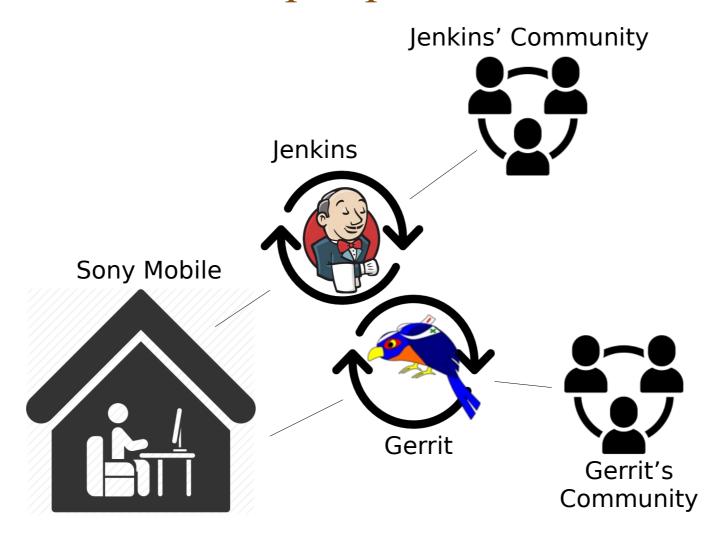
Where?

- To an existing or new community?

Case Studies @ Sony Mobile

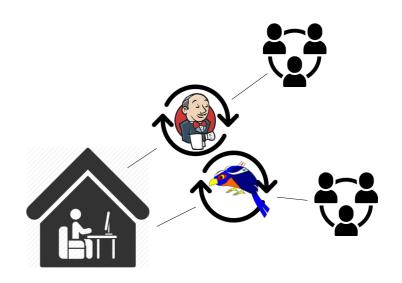


Tools and Infrastructure perspective

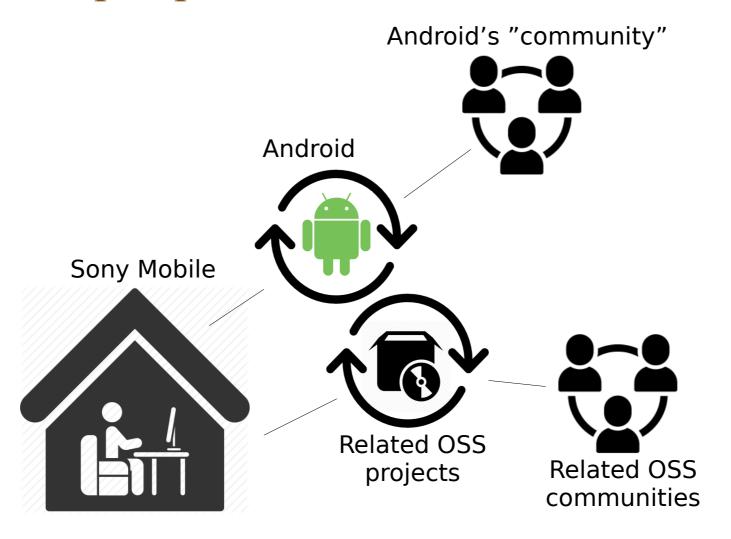


Tools and Infrastructure perspective

- Important to build influence in OSS communities
- Contribute back if deemed non-competitive
- Benefits include
 - Shared maintenance and freed up time
 - Product and process innovation



Core Business perspective



Scope & abstraction

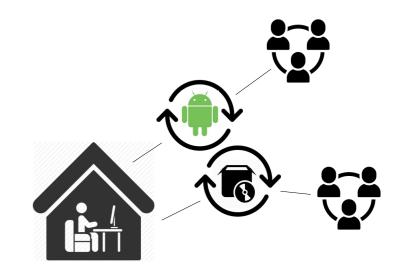
Artifact classification

Contribution strategy

Contribution strategy tuning

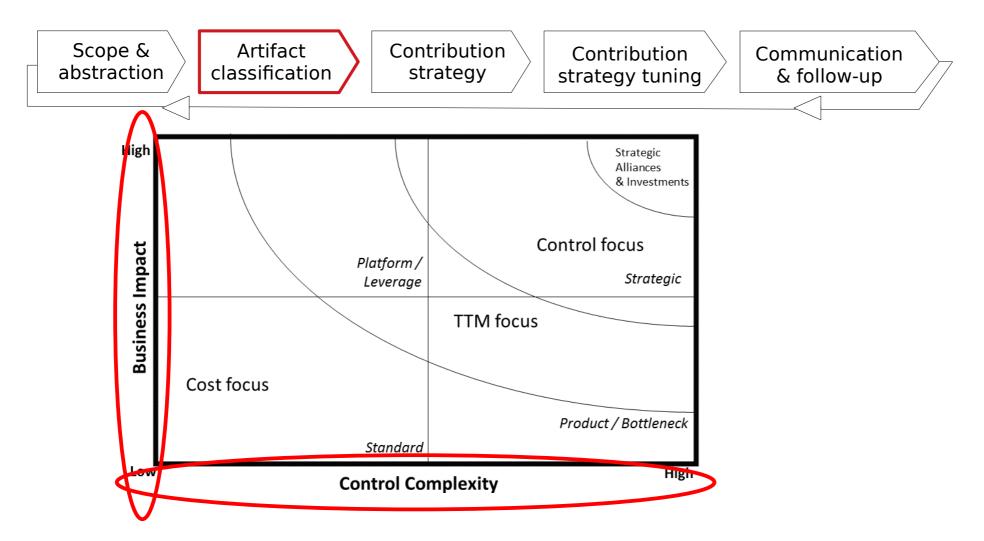
Communication & follow-up

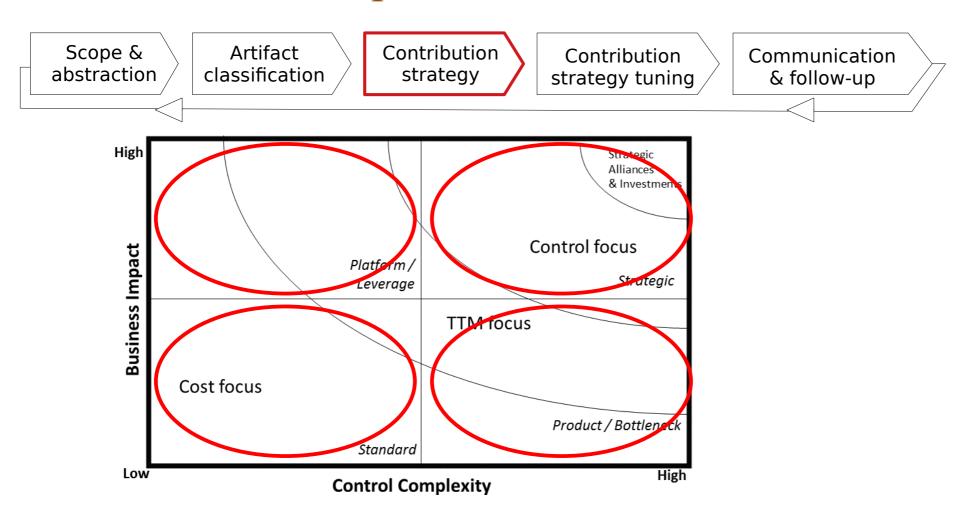
- Structured approach to do contribution strategies
- Proactive use in the product planning process
- Reactive use when responding to contribution requests



Scope & Artifact classification Strategy Contribution strategy tuning Communication & follow-up

- Scope: Portfolio, Product, Release...
- Abstraction: Components, Features...

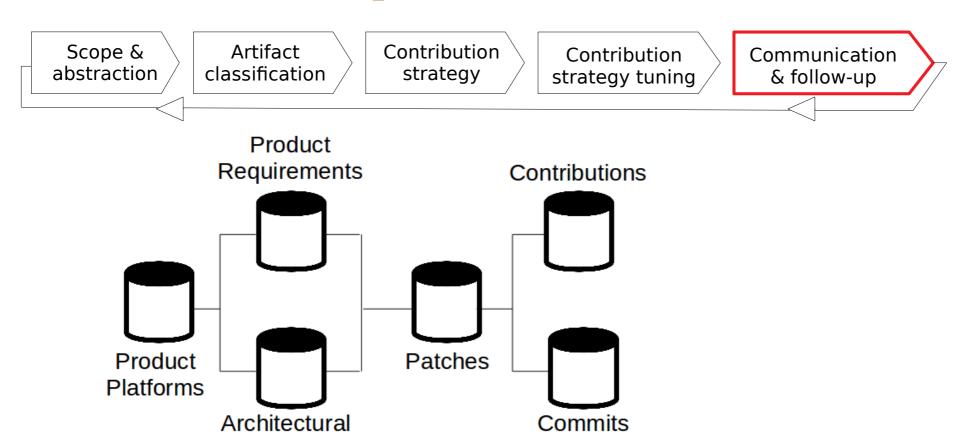






- What are the drivers that should be considered for the specific community? E.g.,
 - Reduce cost and share maintenance
 - Contribute fast to avoid adapting to competitors
 - Gain influence and control in community
- Does the Community engagement need to be adapted?

assets



External Validation

- Good foundation for discussion and decision-making
- In need of being tailored to the context
- Future work should consider influence on an OSS community's development process, and what other stakeholders that are present

CaseOrg2: Agrotech Startup (CA)



CaseOrg3: Agrotech Startup (CA)

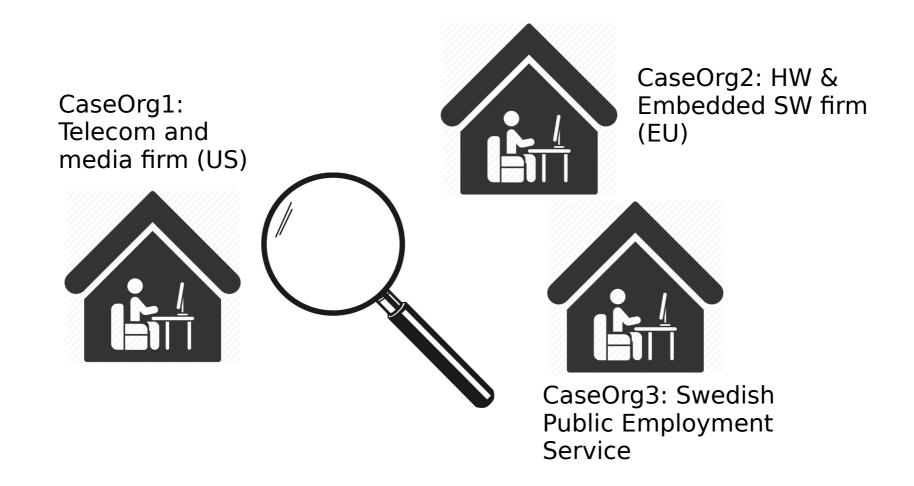
CaseOrg1: Telecom and media firm (US)







Three New Case Studies



Contribution Management framework



- Contribution objectives explicate different types of benefits that may be gained as a consequence of a contribution
- Contribution complexities exemplify aspects that may complicate the contribution, or in other ways imply cost or risk for the organization
- Basis for designing Contribution Strategy guidelines and related contribution process

Contribution Objectives

- 13 Contribution Objectives identified
- For example...
 - Create a standard solution, build a software ecosystem, or create price pressure
 - Improve reputation towards customers, partners, potential employees and the public
 - Increase innovation and reduce costs



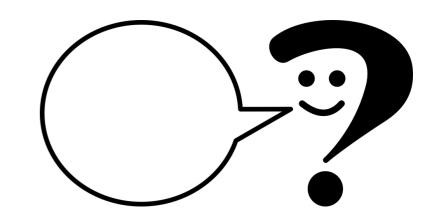
Contribution Complexities

- 16 Contribution Complexities identified
- For example...
 - Impact on value proposition and internal operations?
 - Differentiating functionality or sensitive intellectual property rights?
 - Cost and technical feasibility of contribution?
 - External interest and influence needed?



Asking the right questions

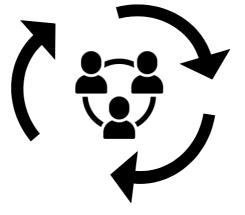
- Example questions for Contribution objectives and complexities
- Questions gathered from contribution guidelines of seven organizations
- Considers e.g., goals and intention, functionality, size and complexity, Internal dependencies, origin of source code, alternatives, business rationale, novelty and competitive edge, license and obligations...



Community Strategies

Where?

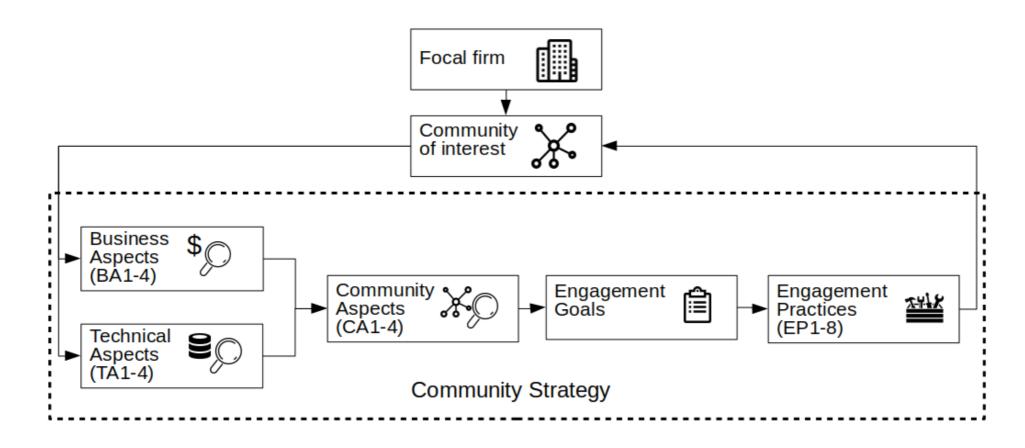
Need for influence?



What? Engagement Goals?

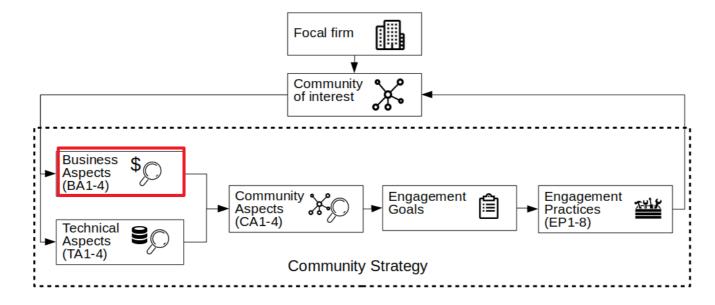
How? Engagement Plan?

Community Strategy Framework



Business Aspects

- Connection to business model
- Connection to business strategy
- Pool for recruitment
- Tool for marketing

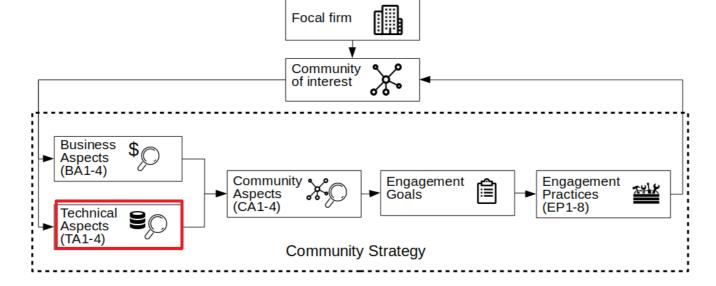


Technical Aspects

- Internal dependenies and integrations
- Fitness-of-use
- Dependency on the OSS community's release planning

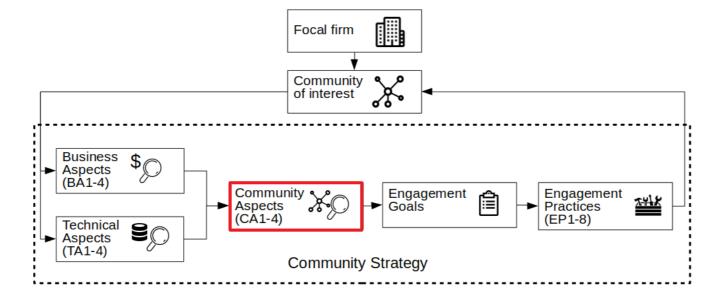
Need for competence and resources of the OSS

community



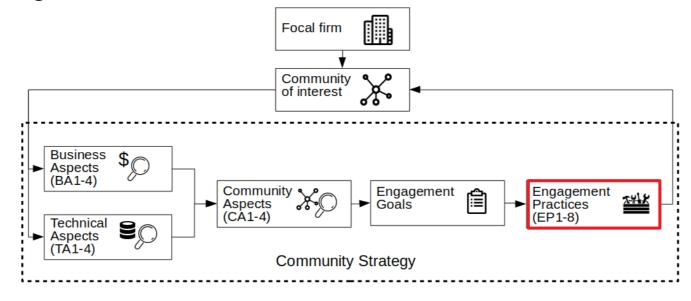
Community Aspects

- Presence, influence and agenda of other stakeholders
- Diversity and activity
- Openness in culture and governance
- Ownership and management of the OSS project

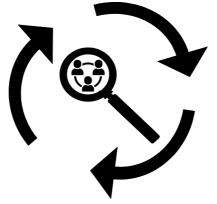


Engagement Practices

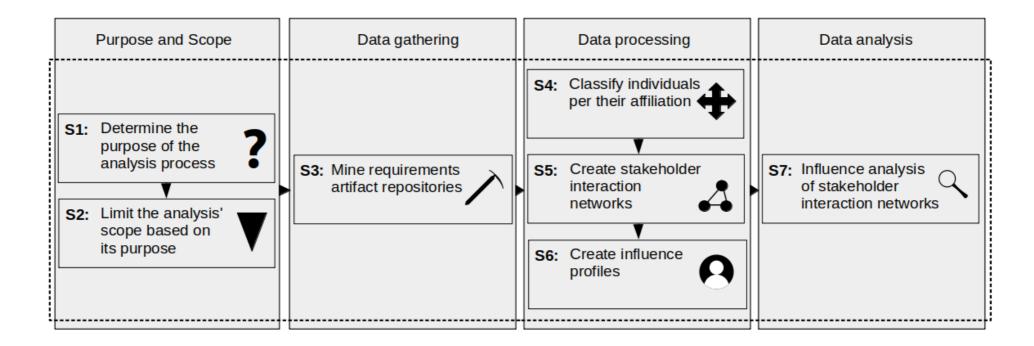
- Understand the community, its culture and governance
- Contribute based on goals and resources
- Foundation membership, documentation writing, arranging hackathons, speaking at conferences, answering mailing lists...

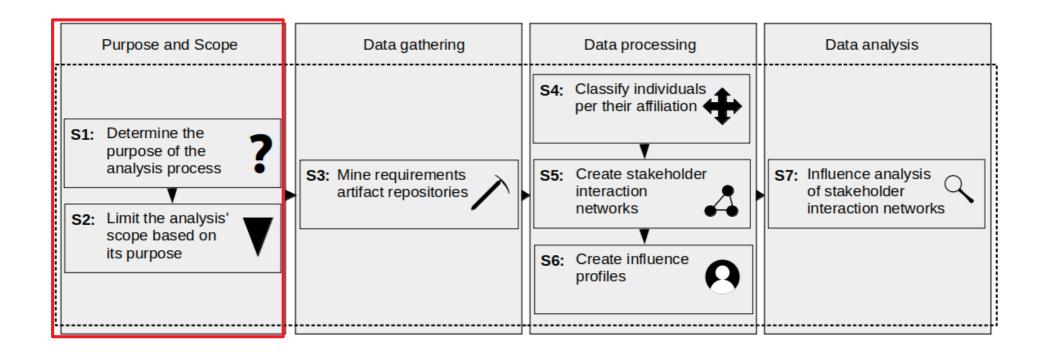


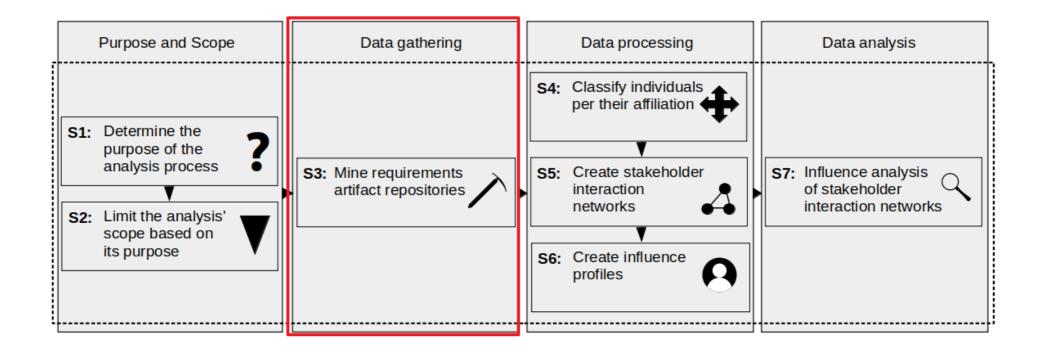
Who? Stakeholders present

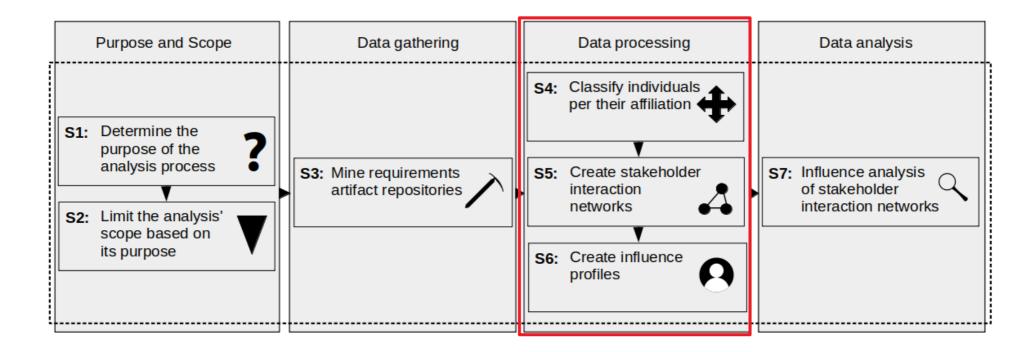


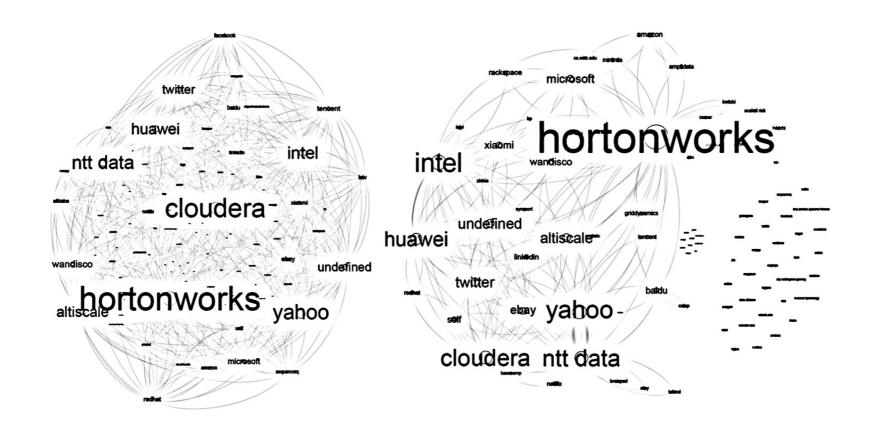
How? Stakeholders' influence What? Stakeholders' agendas

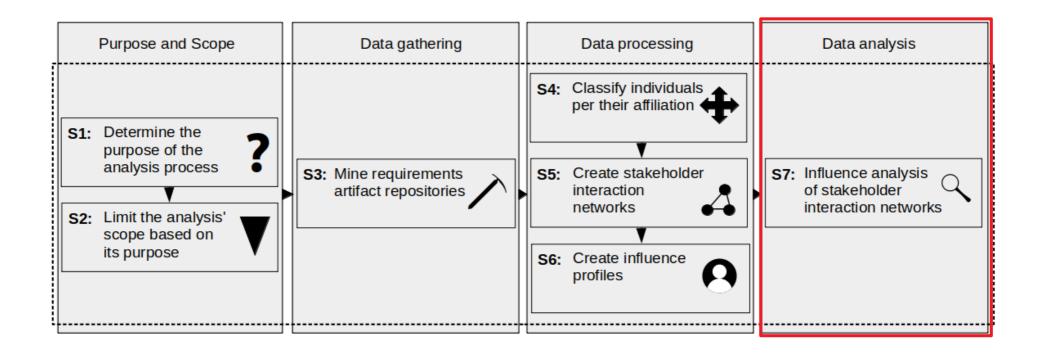


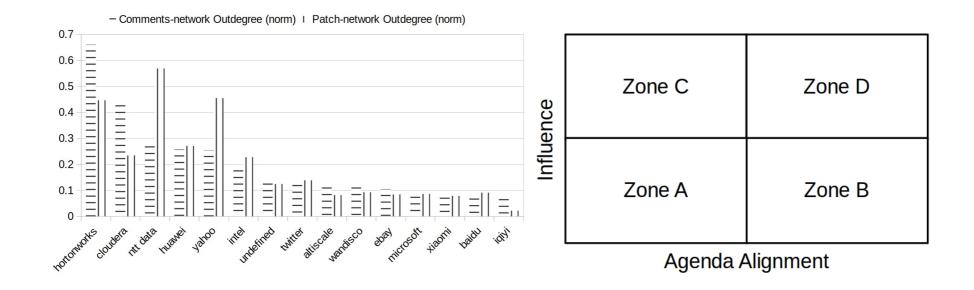




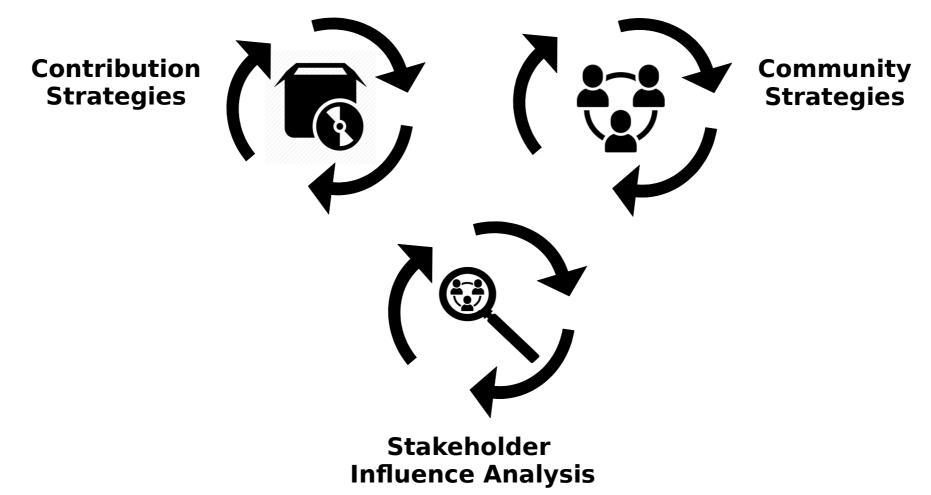








Interactive and Iterative 3-way Approach



Thesis – including all papers

http://cs.lth.se/ johan-linaker/doctoral-thesis/ • • •

